REPORT NO. 78-3-22

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREAS: DESOTO NATIONAL FOREST

STATE: MISSISSIPPI

AREA WITHIN SURVEY BOUNDARY: 721,832 ACRES

DATE: JULY 12-13, 1978

AIRCRAFT: CESSNA 182

PERCENT COVERAGE: 25%

CREW: B. I. HAMMOND, R. TILLOTSON, W. A. CAROTHERS

REPORT PREPARED BY: W. A. CAROTHERS

SURVEY OBJECTIVES: TO DETECT THE PRESENCE OF FOREST INSECTS OR DISEASES ADVERSELY AFFECTING AREAS WITHIN THE PURCHASE BOUNDARIES OF THE DESOTO NATIONAL FOREST.

SURVEY RESULTS

1. ONE HUNDRED SPOTS OF RED-TOPPED OR DYING PINES WERE OBSERVED (REFER TO MAP).

2. ONLY THREE OF THESE SPOTS CONTAINED MORE THAN ONE TREE. TWO SPOTS CONSISTED OF FIVE TREES AND THE OTHER SPOT CONSISTED OF TWENTY TREES.

CONCLUSIONS

WHILE A LARGE NUMBER OF SPOTS WERE OBSERVED, THE DAMAGE IS CONSIDERED MINIMAL SINCE MOST OF THE DEAD TREES WERE SINGLE TREE SPOTS. THE SINGLE TREE SPOTS CAN BE ATTRIBUTED TO *Ips* BEETLES, BLACK TURPENTINE BEETLES, LIGHTNING STRIKES AND OTHER MINOR CAUSES. THE MULTIPLE TREE SPOTS SHOULD BE GROUND CHECKED TO DETERMINE IF SOUTHERN PINE BEETLE IS THE CAUSAL AGENT. FIELD SURVEILLANCE FOR INSECT AND DISEASE PROBLEMS SHOULD CONTINUE BY NATIONAL FOREST PERSONNEL.

FOR ANY ADDITIONAL INFORMATION, CONTACT:

FOREST INSECT & DISEASE MANAGEMENT UNIT, S&PF
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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
EDWARD P. CLIFF, CHIEF

DESOTO NATIONAL FOREST

LEAF RIVER DIVISION

BILOXI, BLACK CREEK AND LEAF RIVER RANGER DISTRICTS

MISSISSIPPI

ST. STEVENS MERIDIAN

1965

Scale

Supervisors office at Jackson, Mississippi
District Ranger offices at Gulfport,
Wiggins and Hattiesburg, Mississippi

Reserved, Airspace

R15W R14W R13W R12W R11W R10W R9W R8W

T2N T1N T1S T2S T3S T4S T5S T6S T7S

LEGEND

- National Forest Boundary
- Purchase Unit Boundary
- Paved Road — Primary
- All Weather or Paved Secondary Road
- Dirt Road
- Primitive Road
- Trail
- Railroad
- Horizonal Control Station
- Horizonal Control and Permanent Lookout Station
- Permanent Lookout Station
- Church
- School
- District Ranger Station
- Forest Service Station
- Cemetery
- Recreation Site
- Mine, Quarry or Gravel Pit
- National Forest Land
- Swamp
- Interstate Highway
- U S Highway
- State Highway
- Forest Route
- Found Corner
- Township and Range Line
- Section Line

SOURCE DIAGRAM

U. S. F. S.

U. S. G. S.

KEY MAP

MISSISSIPPI

HOLLY SPRINGS N. F.
TOMBIGBEE N. F.
DELTA N. F.
BIENVILLE N. F.
HOMOCHITTO N. F.
DESOTO N. F.

FOREST SERVICE MAP — CLASS A
Compiled and drawn at Regional Office, Atlanta, Georgia 1965 from U.S.D.A. Topographic Maps and Forest Service Planimetric Maps Constructed by Photogrammetric methods from aerial photographs, Dated 1958 Control by U.S.C.&G.S. Surveys and Forest Service Surveys

Polyconic Projection
1927 North American Datum